7 Write a C++ program to create a class called COMPLEX and implement the following overloading functions ADD that return a COMPLEX number.
i. ADD (a, s2) – where a is an integer (real part) and s2 is a complex number.
ii. ADD (s1, s2) – where s1 and s2 are complex numbers.

```
#include <iostream>
using namespace std;

class Complex {
   float real, imag;

public:
   Complex() {
      real = imag = 0;
   }
   Complex(float r, float i) {
      real = r;
      imag = i;
   }

   Complex ADD(int a, Complex s2) {
      Complex temp;
      temp.real = a + s2.real;
      temp.imag = s2.imag;
      return temp;
   }

   Complex ADD(Complex s1, Complex s2) {
      Complex temp;
      temp.real = s1.real + s2.real;
      temp.imag = s1.imag + s2.imag;
      return temp;
   }

   void display() {
      cout << real << " + " << imag << "i" << endl;
   }
};

int main() {
   Complex c1(3, 2), c2(1, 7), c3;
   int a = 5;

   cout << "ADD(a, s2): ";
   c3 = c3.ADD(a, c2);
   c3.display();

   cout << "ADD(s1, s2): ";
   c3 = c3.ADD(c1, c2);
   c3.display();
```

```
    return 0;
}
```